sygonix®

GB **Operating Instructions for the Software**
Fingerprint Access System “FP530”

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GB

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1. Introduction

Dear Customer,

thank you for purchasing this product.

This product complies with the statutory national and European requirements.

To maintain this status and to ensure safe operation, you as the user must observe these operating instructions!

These operating instructions are part of this product. They contain important notes on commissioning and handling. Also consider this if you pass on the product to any third parties.

Therefore, retain these operating instructions for reference!

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0.14 €/min. from German landlines, maximum 0.42 €/min. from mobile phones, prices from abroad may deviate.

2. Short description of the FP530-PC Software

The enclosed FP530-PC software provides many additional functions and facilitates the management of programmed users (fingerprints).

Additionally, fingerprint files of the users can be copied from the sensor to the hard disc and archived. Thus, synchronisation or distribution of the programmed fingerprints onto several FP530 units is possible.

Other functions:

- Programming or deleting individual fingerprints
- Assignment of names
- Assignment of the relays to the users
- Setting the relay switching time
- Direct switching function for the relays
- Recording of log files about access attempts
- Saving fingerprints as image files
- PIN query as access protection, can be activated

3. Explanation of Symbols

! This symbol points out particular dangers associated with handling, function or operation.

↗ The “arrow” symbol indicates special advice and operating information.

4. Installation and Preparation

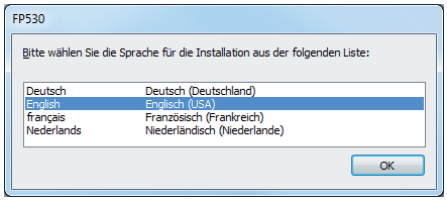
Before the fingerprint access system is connected to the PC, the software, including the driver, has to be installed and the hardware prepared first.

4.1 Software and Driver Installation

After inserting the enclosed CD into the corresponding drive of your computer, the installation will start automatically. If autostart is deactivated on your PC, start the installation by double-clicking the programme “Setup.exe” in the main directory of your CD.

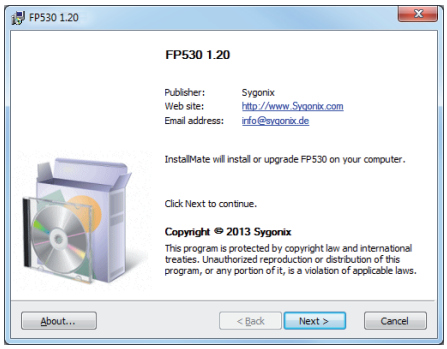
When a safety prompt appears, confirm it by clicking “YES”. The desired installation language can be selected now.

↗ The user must be logged in as administrator in Windows to perform this installation.



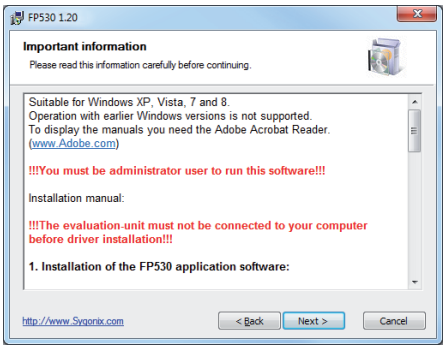
Step 1:

Selection of the language (German, English, French, Dutch)


FP530 1.20
FP530 1.20
Publisher: Sygonix
Web site: http://www.Sygonix.com
Email address: info@sygonix.de
InstallMate will install or upgrade FP530 on your computer.
Click Next to continue.
Copyright © 2013 Sygonix
This program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, is a violation of applicable laws.
About...
< Back
Next >
Cancel

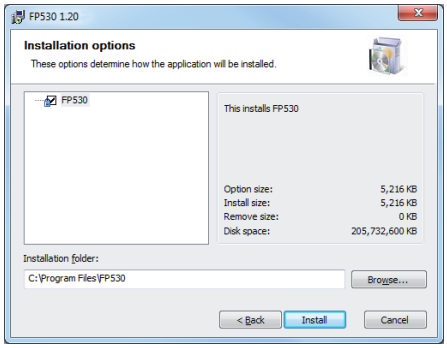
Step 2:

Confirmation of the installation process via the button "Continue"


FP530 1.20
Important information
Please read this information carefully before continuing.
Suitable for Windows XP, Vista, 7 and 8.
Operation with earlier Windows versions is not supported.
To display the manuals you need the Adobe Acrobat Reader.
(www.Adobe.com)
!!!You must be administrator user to run this software!!!
Installation manual:
!!!The evaluation-unit must not be connected to your computer before driver installation!!!
1. Installation of the FP530 application software:
http://www.Sygonix.com
< Back
Next >
Cancel

Step 3:

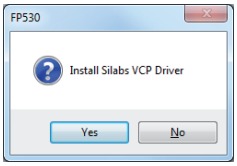
Display of important information for installation



Step 4:

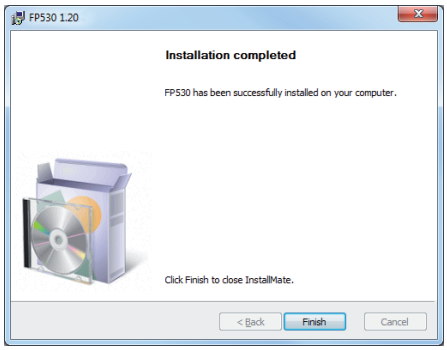
Confirmation of the directory to install the software in the suggested folder or to manually select any other storage location by clicking "Browser..." and then "Install".

The installation programme sets up a programme group "Sygonix FP530" in "PROGRAMMES" and a link to the desktop.



Step 5:

Confirm the installation of the required Silabs VCP driver with "Yes" if it is not present yet. It must be installed under all circumstances. Then proceed according to the instructions of the installation programme.



Step 6:

Installation of the FP530 software is completed. The device can now be connected to the PC (observe chapter "4.2 Preparation of the hardware"), switched on and the programme can be started via the entry in the quick start bar or the icon on the desktop.

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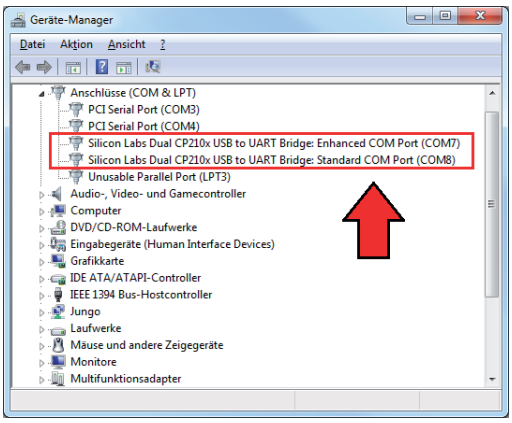
Inspection of the driver installation

To permit communication between the fingerprint module and the installed software, the two COM ports used by the fingerprint module must be in the range COM1 to COM8.

Therefore, reviewing the assigned COM ports in the windows device manager is recommended.

If they are not in the range between COM1 and COM8, the fingerprint module will not be recognised by the software!

Changing of the COM port is described in chapter “11. Frequently Asked Questions (FAQ)”.



4.2 Preparation of the Hardware

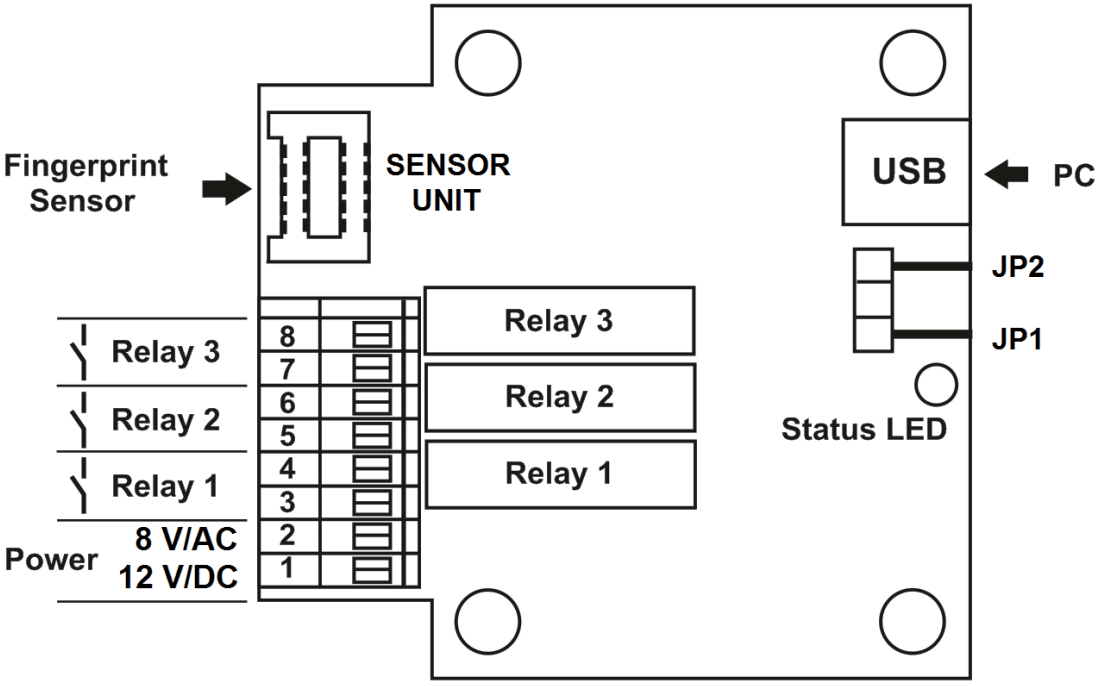
To permit proper communication between the fingerprint module and PC software, no jumpers must be pushed onto the pin strips “JP1” and “JP2”.

The fingerprint sensor must be connected to the evaluation unit via the enclosed cable at the connection “SENSOR UNIT” (see figure below).

The fingerprint module is now connected to a free USB port of the computer via the mini USB socket on the evaluation unit and a matching USB cable.

Then the operating voltage (12 V/DC or 8 V/AC) can be activated at the terminal clamps “POWER”. The polarity is irrelevant for this.

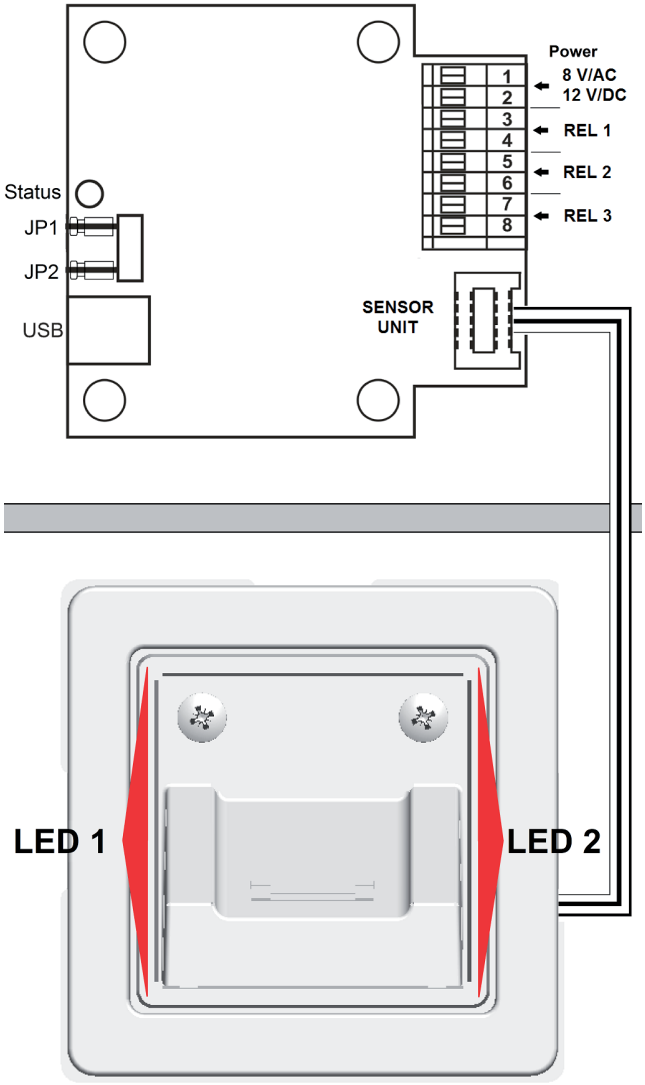
Windows recognises the new hardware when it is connected for the first time and completes the installation of the required drivers.



5. Getting Started

- Start the PC software via the Desktop icon or via “START / PROGRAMMES / Sygonix FP530”. The user must be logged in as administrator.
- The PC software starts setting up the connection to the fingerprint module. This may take up to 30 seconds (observe progress bar).
- After successfully starting the software and establishing the connection to the device, the flashing “status” display LED on the evaluation unit of the fingerprint system signals proper function of the interface with the software. “LED1” and “LED2” will remain lit at the fingerprint sensor.

Hardware overview / status-LEDs:



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- After the software has been started, the following programme window appears (the start window displayed here shows the software in the delivery condition, i.e. no users are programmed yet).
- If fingerprints have already been programmed “without PC software” in the standalone mode, they are listed.

  Observe that the fingerprints that were taught in in standalone mode are not fully compatible with the PC software, since they are not assigned names or relays for system reasons.

  If users are to be programmed via the PC software, the present users need to be deleted first, since mixed operation with differently programmed users is not admissible.

  We generally recommend programming new fingerprints via the comfortable functions of the PC software.

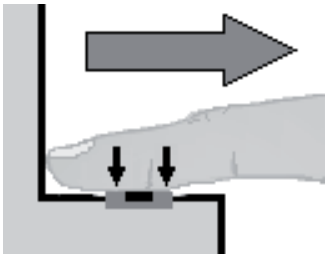
  Users programmed in standalone mode can, however, be recognised via the function identify, renamed and treated like users programmed via the PC software by transfer to the PC and re-transfer to the sensor (relay assignments are then possible).

Starting window:

- Now the first users can be taught in (see chapter “6. Programming New Fingerprints”).

6. Programming New Fingerprints

The following items must be observed for correct recording of the fingerprint by the sensor:



- First place the finger in the housing to the depth stop as shown in the figure on the right.
- The finger must be pulled out of the housing towards the user across the sensor at a medium speed (within approx. 1 second).
- The finger must be moved centrally, flat and with slight pressure so that it will touch the metal strips at the sensor throughout the scanning procedure. The finger must not stay on the sensor during scanning!
- The software provides feedback as to whether the recording was successful or whether a deviation resulted in the error (for instance, “finger moved too fast”).
- If programming is not continued for more than approx. 15 seconds, it is automatically cancelled.

The following items must be considered for best recognition of the finger prints:

- The same finger must be used for programming and verification at all times.
- The index finger is usually best for programming.
- Scarred fingers or callus make recognition more difficult. In this case, use a different finger.
- The sensor area should be cleaned with a soft, antistatic cloth if contaminated.

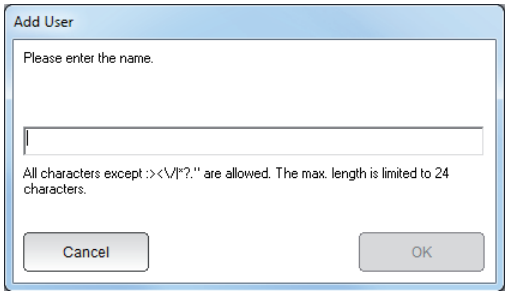
To programme new fingerprints with the PC software, the following steps must be performed:

Step 1:

Programming of new users is started by clicking the button “Add”. The first user programmed via the PC software always is the master fingerprint that is assigned special rights (see chapter “7. The Master Fingerprint”).

Step 2:

Now a prompt to enter the name of the fingerprint to be programmed and to confirm with “OK” appears. No invalid characters must be entered, since the name cannot be confirmed otherwise.



Step 3:

Then the prompt appears to place the finger to be programmed and to pull it over the sensor. The user is then guided through the programming process.

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Step 4:

The finger to be programmed must be placed in the housing to the depth stop so that it touches both metal strips at the sensor for each reading process within 15 seconds.

Step 5:

Then the finger must be pulled out of the housing across the sensor as centrally as possible and at a medium speed (within approx. 1 second).

Step 6:

This process must be performed several times, depending on the quality of the respective fingerprint recorded (typically 5x). Always use the same finger for programming.

Step 7:

When the programming process is completed, the request window closes. The newly programmed fingerprint is listed in the programme window “Fingerprints saved on the PC” and saved on the PC.

This successfully completes programming.

↗ Observe that the fingerprint files of the newly taught-in fingerprints generally are saved on the hard disc of the PC and are not on the fingerprint module yet. The users saved on the hard disc are listed in the programme window in the column “Fingerprints saved on the PC”. For more information on this, see the chapter “9.3 Fingerprints Saved on the PC / Fingerprints in the Sensor”.

It is possible to programme the same finger several times, but it is not sensible and may lead to malfunction!

To warrant clear assignment, the same name must not be assigned to several users when programming. The programme does not differentiate between upper and lower case letters either, so that a present name will be overwritten even if it differs from the name to be read by capitalisation. To maintain a good overview, it is recommended to number the fingerprints of a person (e.g. Max-Finger1, Max-Finger2), if several fingers need to be programmed for one person.

7. The Master Fingerprint

The master fingerprint automatically is the user that was first programmed into the system or the user that was defined as master fingerprint in the PC software afterwards.

The “master authorisation” solely serves release of programming of new users if the device is not connected to a PC (standalone mode). This serves to protect against programming of undesired users. Within the PC software, the master fingerprint does not have any special functions. In door opener mode, it behaves like the other users.

Deletion of the master fingerprint from the memory of the fingerprint sensor is solely possible by resetting of the “FP530” system to the factory settings (see chapter “10. Factory Reset”). The function of the master fingerprint, however, can be transferred to any other user via the PC software.

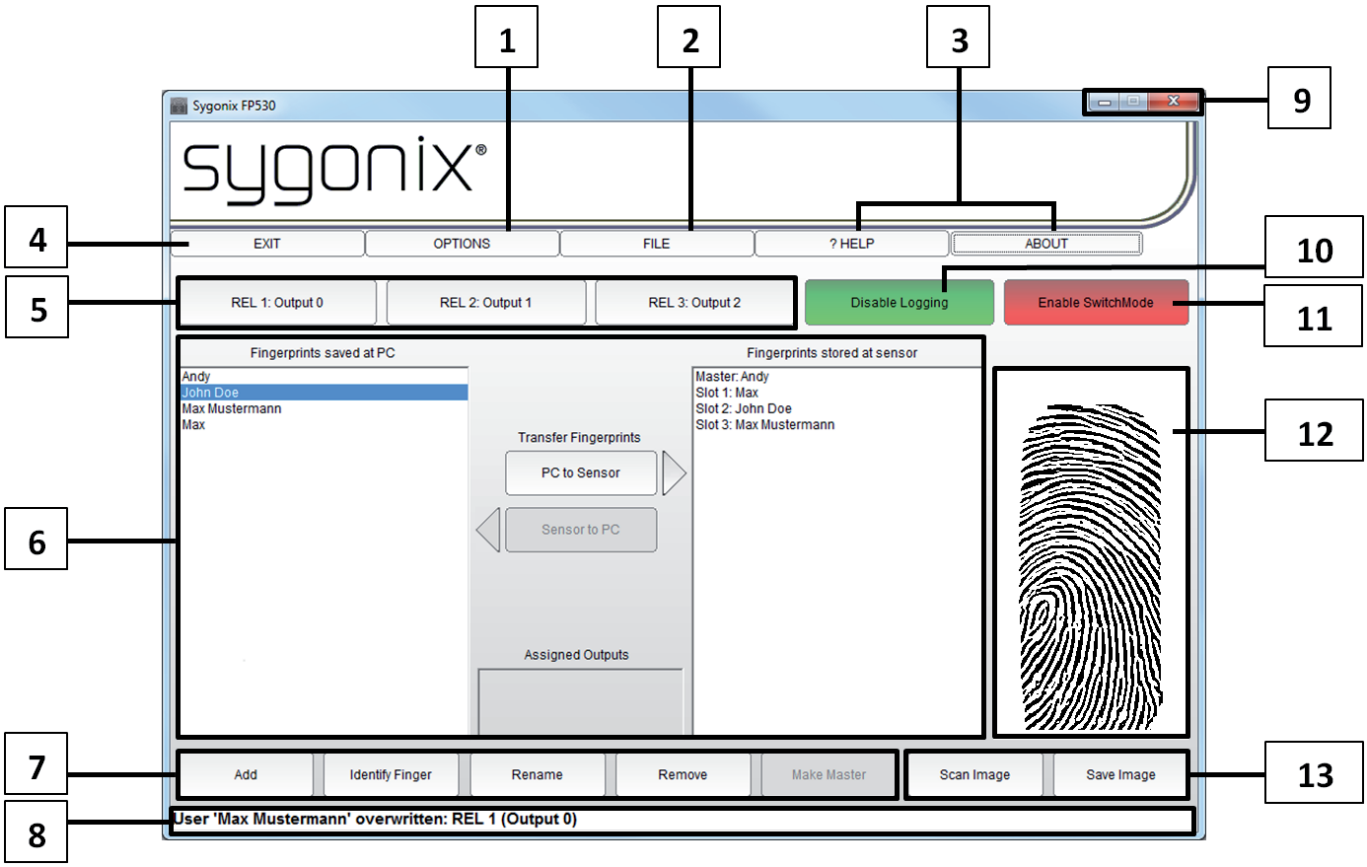
8. User Administration

The PC software provides a number of additional functions to administrate the persons with access-rights. E.g. it enables deleting individual users and assigning names. Normal users can also be designated as master fingerprint.

It is also possible to locally save taught-in fingerprint files of the device on the hard disc of the PC, no matter if the associated users were programmed via PC software or in standalone mode. These fingerprint files permit transferring of users to other PC systems. On demand, the locally saved fingerprint can then be copied into the memory of another fingerprint sensor with the function “transfer”.

Detailed explanations on user administration are found in chapters “9.3 Fingerprints Saved on the PC / Fingerprints in the Sensor”.

9. Function Overview



Quick overview:

1 Programme window “Options” (switching times and names of the relay outputs, language, PIN, ...)
2 Opening image and log files
3 Help and information on Sygonix fingerprint
4 Exiting the PC software
5 Buttons for manual switching of the three relays
6 Display of archived fingerprints / users in the sensor
7 Functions for user administration
8 Status display for system messages
9 Minimise/close programme window
10 Activates/deactivates logging of data
11 Activates/deactivates switching mode (door opener mode)
12 Fingerprint display window
13 Reads in a fingerprint as a picture that can be saved.

↗ In the following chapters, the functions listed above are explained in detail.

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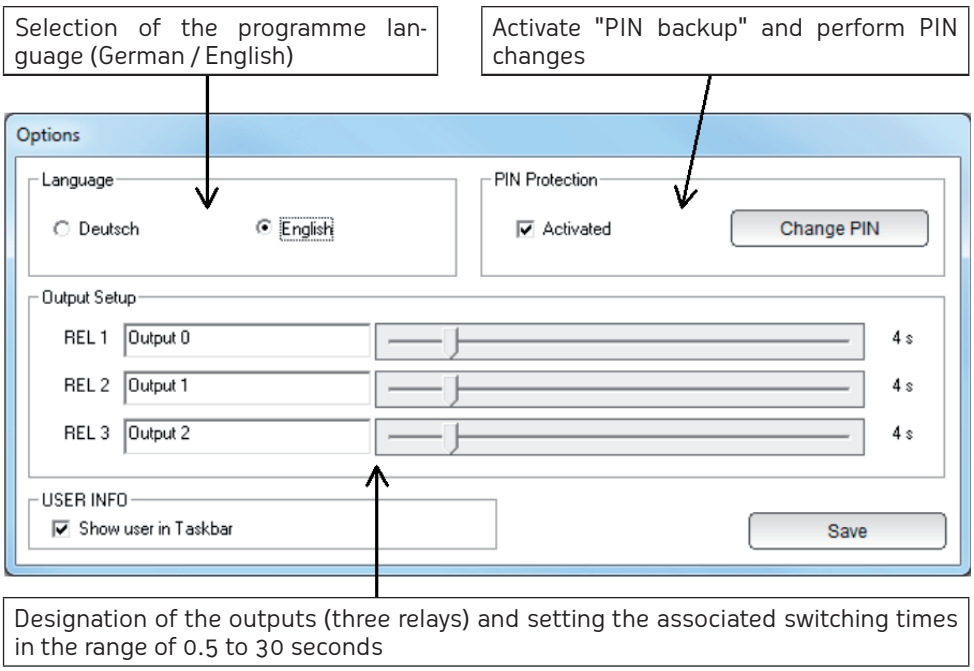
9.1 Expanded Software Functions “Options, File, Help, Exit” (1, 2, 3, 4)

1. Options:



Language:

The programme language can be switched between German and English in the filed “Language” in the “Options”,

Activate PIN protection, change PIN:

In order to protect the software from unauthorised access, an 8-digit PIN code is to be used. This can be activated via the menu item “Options” in the filed “PIN protection”. In the delivery condition, the PIN protection is deactivated. With the PIN activated, a prompt will appear when starting the PC software. Then the user has full access to all software functions when the PIN is entered correctly.

For reasons of safety, it is recommended to activate the PIN protection after the installation. For this, set the hook under “PIN protection” in “Activated”. Then the user is asked to enter the desired PIN and confirm it again for safety. If a PIN is already assigned and to be changed, the button “Change PIN” is available. Input of the old PIN is requested first. Then the new PIN can be entered, which must be confirmed again by being entered again.

The PIN must be eight characters long and may be made up of letters, numbers and special characters. When assigning a PIN, capitalisation is important.

The PIN is saved in “FP530 module”. This means that it is also requested after reinstallation of the “FP530” user software, if PIN query was activated originally.

The PIN access protection, only be revoked by factory reset, which will also lead to concurrent deletion of all users. Therefore, it is particularly important to not forget the PIN used.

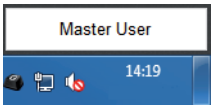
Output settings

The switching time of the three available relays can be set in the range from approx. 0.5 - 30 seconds. For this, the slider in the field “Output settings” in the menu item “Options” is used to set the desired time. Additionally, the relay output may be named as desired.

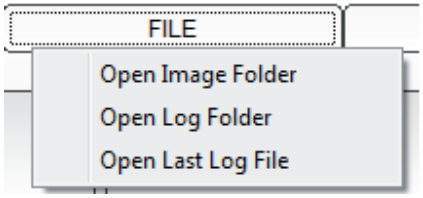
After confirmation with “OK”, the setting is transferred to the device. This setting also applies for operation without a computer.

User display

Indicates the user at the lower right in the Windows task bar who is currently switching relays, see figure on the right.



2. File



“Open folder image files”:

Opens the folder of the fingerprint image files saved via “Save image”.

“Open folder log files”:

The folder in which the “FP530” software saves the generated log files can be accessed via “File \ Open Folder Log files”. The log files are saved and can be opened directly with a double-click.

Open last log:

The current log file can be displayed via “File \ Open last log”.

The Log File (Protocol Function)

In relay mode, all attempts at switching the relay by fingerprint are recorded in a log file along with date and time (as per Windows system time). The file format is “.txt”.

The user associated with the access attempt is also saved if he is in the list of the programmed fingerprints. If a person who does not have access rights tries to enter, this event is also saved (displayed as “User unknown”).

Example:

13.08.2013 ; 10:31:03 ; “User: Max Mustermann; relay 2 (Output 1)“

13.08.2013 ; 10:31:10 ; “Exiting switching mode.”

13.08.2013 ; 10:33:06 ; “User ‘Max’ has been declared Master.”

13.08.2013 ; 10:33:12 ; “Switch to switching mode.”

13.08.2013 ; 10:33:42 ; “The user is unknown.”

13.08.2013 ; 10:39:47 ; “Exiting switching mode.”

Every day, a new log file is set up with the respective date as file name (e.g. “01.03.2014.txt”).

3. Help/About

The help menu can be used to collect important information on the usage instructions stored. Clicking “Amount” will provide information on the current software version.

4. Exit

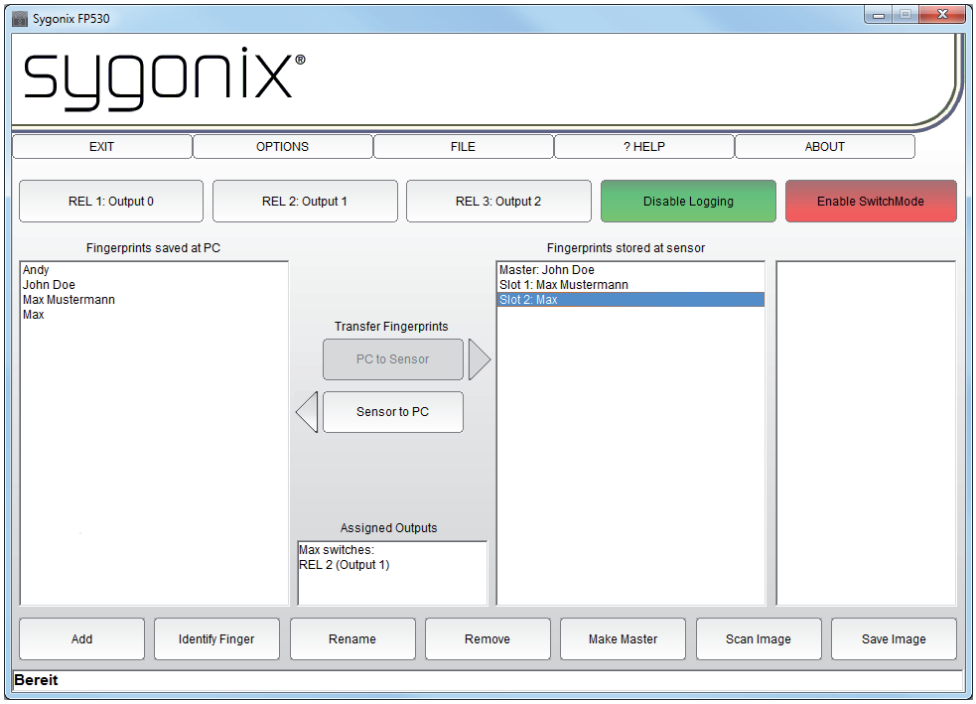
Clicking “Exit” closes the software. At a restart, the fingerprint system needs approx. 10 seconds to be recognised by the PC software again.

9.2 Button “Relay” (5)

Clicking the button “Relay” of the desired exit will activate the relay according to the set time (menu “Options”). Thus, there is the option to comfortably open the door from the PC.

Opening is displayed by the two light-emitting diodes at the sensor.

9.3 Fingerprints Saved on the PC / Fingerprints in the Sensor (6)



Users who have been programmed via the function “Add” are saved on the hard disc of the PC as fingerprint file and displayed in the column “Fingerprints saved on the PC”.

For the fingerprints to be applied, the respective files must be transferred to the fingerprint sensor (in the figure, the column “Fingerprints in the sensor” already lists fingerprints that are in the fingerprint sensor’s memory).

To copy fingerprints onto the device, you can use the function “Transfer to the sensor” (users with identical names are overwritten after confirmation; however, a difference is made between upper and lower case).

After marking the desired fingerprint (multiple selection is possible when the Ctrl-button is kept pushed and the desired fingerprints are selected with the mouse) and then clicking the arrow “Transfer to the sensor”, the window for selection of the outputs will appear (for multiple selection, the windows will appear in sequence).

Here, up to three relays can be activated at the same time and the settings can be confirmed with “OK”.

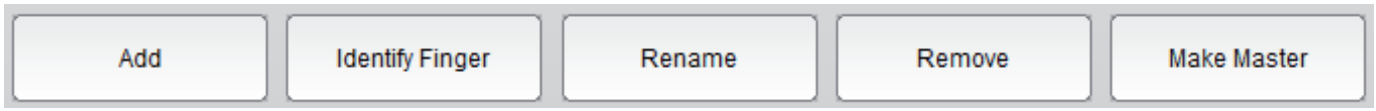
After successful transfer, the fingerprints are available in the column “Fingerprints in the sensor” on the device. When clicking a user, the lower part of the window under “Assigned outputs” displays the relays this user switches.

If users are to be transferred from the device to the PC, the function “Transfer to PC” is available.

These functions can thus be used as backup functions, to synchronise or to distribute among several units (the fingerprints can be copied to several fingerprint systems).

9.4 Functions for User Administration (7)

Overview of the functions of user management:



Add:

Reads in a user and adds it to the list “Fingerprints stored on the PC” (see chapter “6. Programming New Fingerprints”).

Identify:

A user can use the function “Identify” to check if he is in the list of fingerprints in the sensor. After clicking the corresponding button, the prompt appears to pull the finger over the sensor.

If the finger is recognised, the associated name appears above the fingerprint display window that displays the fingerprint that has just been read as an image. Additionally, the name is displayed in the status display for system messages at the very bottom of the programme window.

The function permits, e.g., identifying fingerprints without assigned names. These are, e.g., users who have been read in without PC support. Therefore, reading in should preferably be done using the PC software.

Change Name:

The name of a fingerprint marked by clicking with the mouse can be changed in the list of the fingerprints saved on the PC as well as the list of fingerprints in the sensor via the button “Rename” (multiple selection possible if the Strg.-button (or Ctrl-button, depending on the country version of the keyboard) is kept pushed and the desired fingerprints are selected with the mouse). In the dialogue window, inadmissible characters and the maximum character number are indicated - at multiple selection, the windows appear in sequence. If an entry is changed to a name that is already listed, it is rejected. There is a difference between upper and lower case.

Delete:

A user marked by clicking with the mouse can be removed from the list of the fingerprints saved on the PC as well as the list of fingerprints in the sensor via the button “Delete” (multiple selection possible if the Strg.-button (or Ctrl-button, depending on the country version of the keyboard) is kept pushed and the desired fingerprints are selected with the mouse).

Deleting of a fingerprint from the list “Fingerprints in the sensor” will release memory space on the sensor. If a fingerprint is deleted in the column “fingerprints saved on the PC”, it is deleted from the hard disc of the PC. If the corresponding file in the directory “C:\Users\Benutzername\AppData\Roaming\Sygonix FP530\Fingers” is not backed up (e.g. in another directory or on the device itself), this fingerprint is deleted irrevocably.

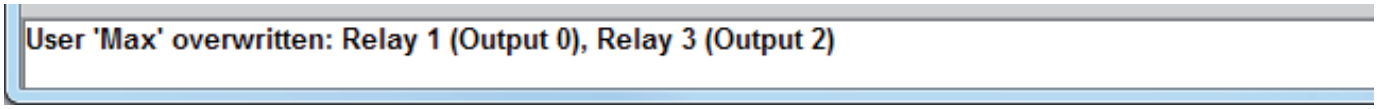
The master fingerprint that is in the memory of the sensor cannot be deleted via the function “Delete”. To delete the master fingerprint in the sensor, you must perform a reset to factory settings.

Declare master:

The function “Make master” can create a selected user as a new master fingerprint. This will replace the previous master fingerprint and move to the first slot of the list.

For this, the desired user is selected in the list “Fingerprints in the sensor” and declared the new master fingerprint by clicking the button “Make master”.

9.5 Status Display (8)



The status display shows current system messages.

9.6 Minimise/Close Programme Window (9)

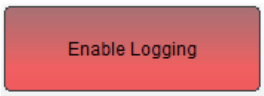
Click the button “Minimise” to minimise the programme window. The programme icon is then displayed only in the menu bar (system tray). Double-click the programme icon in the system tray (see figure on the right, Windows 7), the programme window can be maximised again and displayed in full.

Click the button “Close” to close the PC software. At a restart, the fingerprint system needs approx. 10 seconds to be recognised by the PC software again.

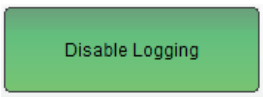
9.7 Deactivate Logging (10)

During switching operation, any attempt to switch the relay by fingerprint will be recorded in a log file together with date and time (according to the Windows system time) – see “The log file (protocol function)” in chapter “9.1 Expanded software functions...”

The green button “Deactivate logging” switches off recording of the switching attempts at the fingerprint module. The button then appears red. Clicking the now-red button “Activate logging” again will reactivate the recording and the button will appear green.



Logging is active and can be deactivated by clicking the green button



Logging is inactive and can be activated by clicking the red button

9.8 Button “Activate Switching Mode” - Door Opener Mode (11)

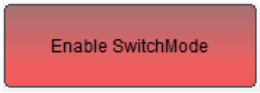
Clicking the button “Activate switching mode” will use the fingerprint system as a PC supported access control system. I.e. when recognising an access-authorised fingerprint, the relay will switch according to the set time. Additionally, the time and associated name are recorded in a log file if logging is activated (storage place of the log files: “C:\Users\Benutzername\AppData\Roaming\Sygonix FP530\Log”).

Switching mode takes place by clicking the red button “Activate switching mode”. The button then appears green. If switching is active, unneeded buttons are locked.

A click to the now-green button “Deactivate switching mode” terminates switching mode; the button then turns red again.

If a user is recognised, the name will appear above the fingerprint display window. The relay is activated according to the reaction time set. Additionally, recognition is displayed by the LEDs at the sensor that flash during switching until the device is ready for input again. If recognition is not successful, the two light-emitting diodes will flash thrice briefly.

Switching mode is active and can be deactivated by clicking the green button



Switching mode is inactive and can be activated by clicking the red button

9.9 Fingerprint Display Window (12)

In the fingerprint display window, a picture of the fingerprint is displayed when reading a new user, identifying and when “reading image”. This permits the user to track the quality and completeness of the scan that has just been recorded.

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9.10 Read/Save Image (13)

The button “Read image” permits reading any finger and displaying a picture of the fingerprint. This picture can be saved as a bitmap file (.bmp) via the button “Save image” in the path

C:\Users\Benutzername\AppData\Roaming\Sygonix FP530\Images

. Clicking “Read image” starts the reading process as usual. Then the picture of the fingerprint appears in the “fingerprint display window”. After adding a new user and during identification, the image of the recorded fingerprint is displayed and can be saved via “Save picture”.

“File” and “Open image files directory” permit directly calling the fingerprint picture file. The files saved are only picture files and do not serve to recognise users or to execute functions.

! Fingerprint data (fingerprints) are sensitive and strictly confidential data!
Observe:
If the fingerprint of a user is to be saved as a .bmp picture file, his consent in writing must be collected first! Disclosing and passing it on to any third parties is only allowed with the user’s written consent. It must be ensured that all connected documents are protected against third parties accordingly.

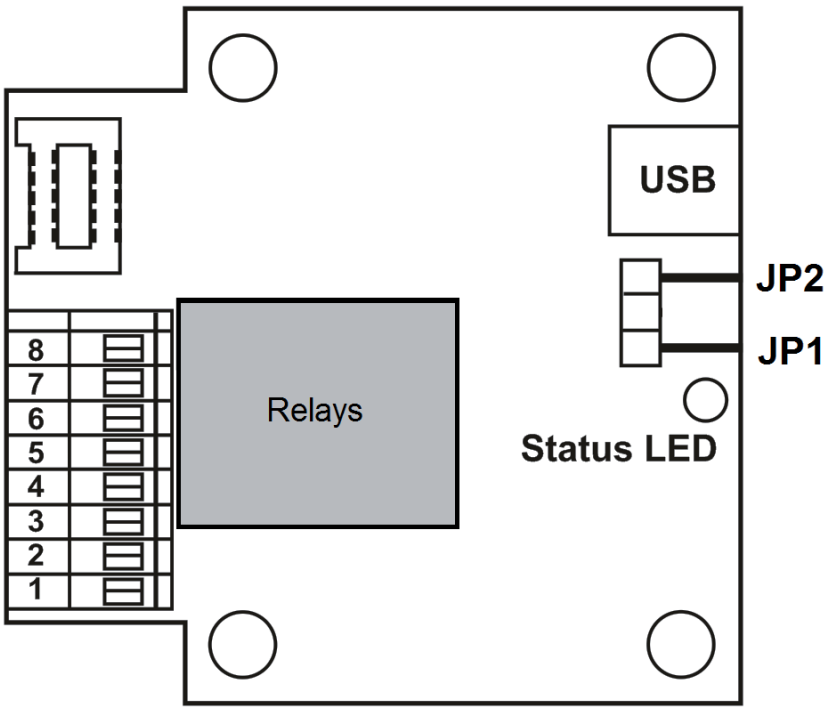
10. Factory Reset

At a factory reset, all users, including the master fingerprint, are deleted and the switching time is reset to four seconds. The PIN access protection for the PC software is revoked.

To reset the fingerprint system to the factory settings, the PC software has to be terminated and the connection to the PC has to be disconnected.

Then proceed as follows:

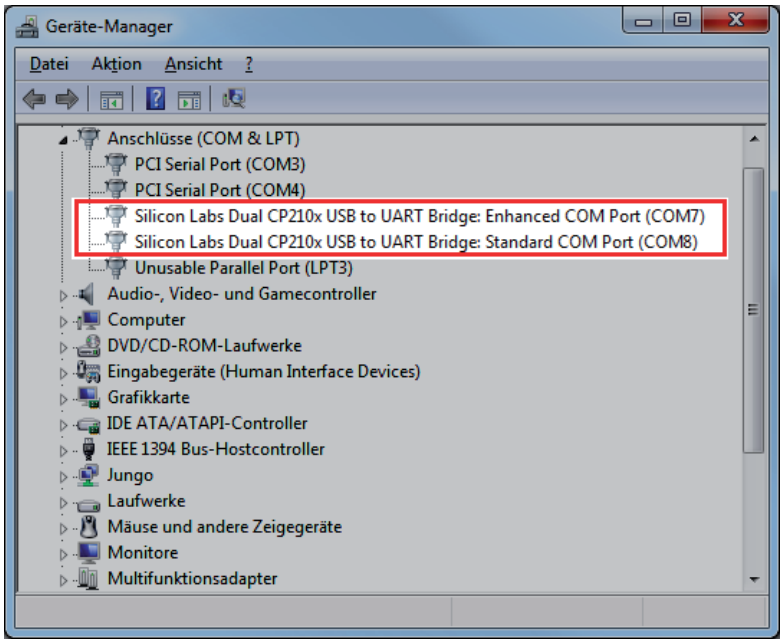
- The included jumper is to be placed on the jumper slop “JP2” for approx. 30 second until the “LED1” at the sensor goes out (“LED2” continues to be lit).
- The fingerprint system is now reset to the factory settings.



11. FAQ (Frequently Asked Questions)

Why is the FP530 fingerprint system not recognised by the software?

- Observe that the two COM parts that were automatically assigned to the fingerprint system are in the range of COM1 to COM8, see device manager:
  "Connections (COM & LPT) / Silicon Labs Dual CP210x USB to UART..."
  The fingerprint module will only work in this range of the COM ports. In the next section, it is explained how the COM port of the driver can be changed.
- Is the "Silicon Labs" USB driver installed correctly? This can be reviewed in the device manager.



- Is the configuration of the jumpers correct? To establish connection with the PC and thus the software, both jumpers (JP1 and JP2) must be removed.
- Was a suitable USB cable used? (plug type A to plug type mini B)

How to change the driver COM port?

A change of the COM port is only required if one or both numbers of the COM port assigned by Windows are larger than 8.

The COM port can be changed in the device manager:

Open the device manager in the system control of the Windows system.

- Select the entry "Silicon Labs Dual CP210x USB to UART Bridge: Enhanced COM Port (COM..)" under "Connections (COM & LPT)" and click it with the right mouse button.
- Under "Properties", "Connection settings" and "Advanced", the COM port can be changed in "COM connection number" (see figure on the next page).
- Confirm these settings with "OK".

↗ Depending on the operating system version, the new setting will only be displayed after the device manager is restarted. The procedure may deviate slightly between different Windows systems.

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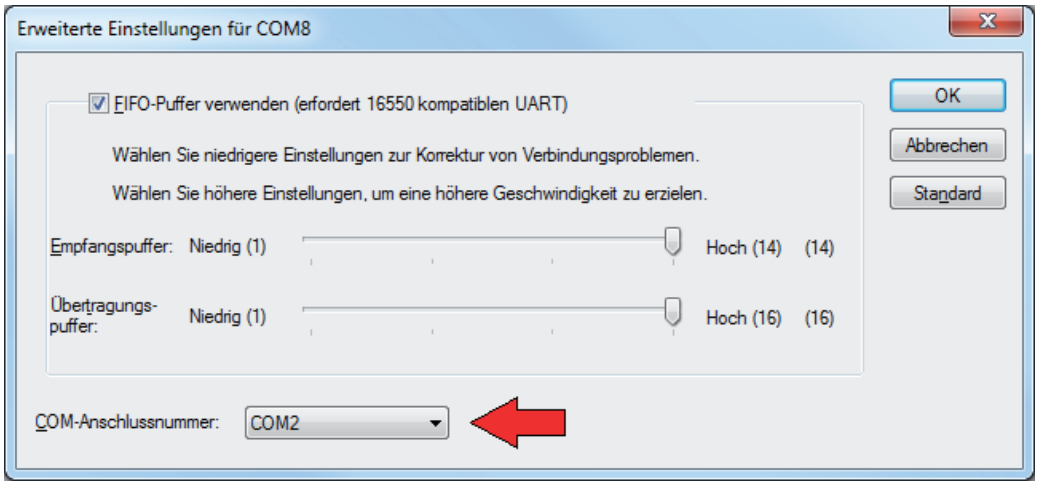
Erweiterte Einstellungen für COM8
FIFO-Puffer verwenden (erfordert 16550 kompatiblen UART)
Wählen Sie niedrigere Einstellungen zur Korrektur von Verbindungsproblemen.
Wählen Sie höhere Einstellungen, um eine höhere Geschwindigkeit zu erzielen.
Empfangspuffer: Niedrig (1) Hoch (14) (14)
Übertragungs-puffer: Niedrig (1) Hoch (16) (16)
COM-Anschlussnummer: COM2
OK
Abbrechen
Standard

Due to leftovers from old driver installations, available COM ports may be displayed as “already assigned”. When assigning such COM ports, verify their availability in every case. Otherwise, the communication of other hard and software may be blocked.

Perform a restart if necessary.

Why does the status LED flicker from time to time?

This is due to system reasons and thus normal.

Status Messages

“Requested slot not present - no memory free”

= Sensor storage fully assigned. No further user can be added.

“Time for process exceeded”

= Time exceeded when reading in a fingerprint. Reading of the fingerprint has been interrupted because no input was made for more than 15 seconds.

“Time exceeded”

= Connection to the sensor has been lost. Check the wiring and the voltage supply to the fingerprint module. Then restart the software.

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